## Amendments to the Claims:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

## 2-3. (Canceled)

- 4. (Previously Presented) The honeycomb structure according to claim 1, wherein the porosity of the cell wall is 46% or more.
- 5. (Previously Presented) The honeycomb structure according to claim 1, wherein a thickness of the cell wall is 400µm or less.
- 6. (Previously Presented) The honeycomb structure according to claim 1, wherein a material for the cell wall is porous ceramic.
  - 7. (Canceled)
- 8. (Previously Presented) The honeycomb structure according to claim 1, wherein the predetermined cells plugged at one end face and the remaining cells plugged at the other end face are arranged alternately so as to form checkerboard patterns at the end faces.

## 9-23. (Canceled)